

Revision date 13-05-2025

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name PY FASCOL MOTORWAY BLUE PIGMENT
Product Code(s) WS02358A
Safety data sheet number 13670
Unique Formula Identifier (UFI) 9MU6-7125-T00T-M93E
Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polyester pigment for composites. For industrial use only.

1.3. Details of the supplier of the safety data sheet

Importer WSEU LIMITED The Penthouse Floor 5 Lapps Quay Cork Ireland T12 RW7D For further information, please contact	Supplier West & Senior Ltd Milltown Street Radcliffe Manchester M26 1WE UK
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E-mail address info@westsenior.co.uk

Non-Emergency Telephone Number + 44 01617247131

1.4. Emergency telephone number

Emergency Telephone +44 0161 724 7131 Only available 8am to 4pm, Monday to Friday (UK Time Zone)

Emergency Telephone - \$45 - (EC)1272/2008

Europe	112
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

EUH210 - Safety data sheet available on request.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

Other hazards No information available.

PBT & vPvB None known.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No.	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
BARIUM SULPHATE	7727-43-7	30-60%	01-21194912 74-35-0001	231-784-4 (056-002-00-7)	No data available	-	-	-
TITANIUM DIOXIDE	13463-67-7	10-30%	01-21194893 79-17-0000	236-675-5	No data available	-	-	-
C.I. PIGMENT BLUE 15	147-14-8	1-5%	01-21194587 71-32-0024	205-685-1	No data available	-	-	-
CARBON BLACK	1333-86-4	<1%	01-21193848 22-32-0000	215-609-9	No data available	-	-	-
C.I. PIGMENT VIOLET 23 (C.I.151319)	215247-95-3	<1%	01-21194511 49-38-0000	606-790-9	No data available	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
BARIUM SULPHATE 7727-43-7	307000	No data available	No data available	No data available	No data available
TITANIUM DIOXIDE 13463-67-7	10000	No data available	5.0951	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
C.I. PIGMENT BLUE 15 147-14-8	10000	5000	No data available	No data available	No data available
CARBON BLACK 1333-86-4	15400	2000	0.0046	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Nanoforms

C.I. PIGMENT BLUE 15 (147-14-8)

Name of (set of) nanoform(s)	Particle characteristics	Value	Method
Orthorhombic Aspect ratio (x) =1 to 3 [TEM]	Particle size distribution - d10	10-50 nm	No information available
Orthorhombic Aspect ratio (x) =1 to 3 [TEM]	Particle size distribution - d50	10-100 nm	No information available
Orthorhombic Aspect ratio (x) =1 to 3 [TEM]	Particle size distribution - d90	20-150 nm	No information available

CARBON BLACK (1333-86-4)

Name of (set of) nanoform(s)	Particle characteristics	Value	Method
solid: nanoform, surface-treated	Particle size distribution - d10	7-29 nm	No information available
solid: nanoform, surface-treated	Particle size distribution - d50	10-50 nm	No information available
solid: nanoform, surface-treated	Particle size distribution - d90	15-85 nm	No information available

Additional information

This mixture contains $\geq 1\%$ Titanium Dioxide (CAS 13463-67-7) The Annex VI classification of Titanium Dioxide does not apply to this mixture according to its Note 10.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Effects of Exposure	No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510)

Storage class 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
BARIUM SULPHATE 7727-43-7	-	-	TWA: 5 mg/m ³ ;	TWA: 10.0 mg/m ³ ;	TWA-GVI: 10 mg/m ³ ; total dust, inhalable particles TWA-GVI: 4 mg/m ³ ; respirable dust
TITANIUM DIOXIDE 13463-67-7	-	TWA-TMW: 5 mg/m ³ ; alveolar dust, respirable fraction STEL-KZGW: 10 mg/m ³ (2 X 60 min); alveolar dust, respirable fraction	TWA: 10 mg/m ³ ;	TWA: 10.0 mg/m ³ ; respirable dust	TWA-GVI: 10 mg/m ³ ; total dust, inhalable particles TWA-GVI: 4 mg/m ³ ; respirable dust
C.I. PIGMENT BLUE 15 147-14-8	-	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL 4 mg/m ³ STEL 0.4 mg/m ³	-	-	-
CARBON BLACK 1333-86-4	-	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
Fumed silica (generic) 112945-52-5	-	TWA: 4 mg/m ³	-	-	-
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m ³ ;	TWA-TMW: 0.05 mg/m ³ ; alveolar dust, respirable fraction	TWA: 0.1 mg/m ³ ; alveolar dust TWA: 0.05 mg/m ³ ;	TWA: 0.1 mg/m ³ ; respirable fraction	TWA-GVI: 0.1 mg/m ³ ; respirable dust; respirable particle
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
TITANIUM DIOXIDE 13463-67-7	-	-	TWA: 6 mg/m ³ ; STEL: 12 mg/m ³ ;	TWA: 5 mg/m ³ ;	-
C.I. PIGMENT BLUE 15 147-14-8	-	-	-	-	TWA: 0.02 mg/m ³
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
Fumed silica (generic) 112945-52-5	-	TWA: 0.1 mg/m ³ TWA: 4.0 mg/m ³	-	TWA: 2 mg/m ³	TWA: 5 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m ³ ; respirable dust fraction	TWA: 0.1 mg/m ³ ; dust	TWA: 0.3 mg/m ³ ; total TWA: 0.1 mg/m ³ ; respirable STEL: 0.6 mg/m ³ ; total STEL: 0.2 mg/m ³ ;	TWA: 0.1 mg/m ³ ; inhalable dust	TWA: 0.05 mg/m ³ ; respirable dust

			respirable		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
BARIUM SULPHATE 7727-43-7	-	TWA-AGW; 1.25 mg/m ³ (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m ³ (exposure factor 2); inhalable fraction	TWA-MAK: 0.3 mg/m ³ ; II(8);respirable fraction TWA-MAK: 4 mg/m ³ ; inhalable fraction Peak: 2.4 mg/m ³ ; respirable fraction	-	-
TITANIUM DIOXIDE 13463-67-7	TWA-VME: 10 mg/m ³ ;	TWA-AGW; 1.25 mg/m ³ (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m ³ (exposure factor 2); inhalable fraction	TWA-MAK: 0.3 mg/m ³ ; II(8);respirable fraction Peak: 2.4 mg/m ³ ; respirable fraction	TWA: 10 mg/m ³ ; inhalable fraction TWA: 5 mg/m ³ ; respirable fraction	-
C.I. PIGMENT BLUE 15 147-14-8	-	-	-	-	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m ³	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³
Fumed silica (generic) 112945-52-5	-	TWA: 4 mg/m ³	TWA: 0.02 mg/m ³ Peak: 0.16 mg/m ³	-	-
SILICA (CRYSTALLINE) 14808-60-7	TWA-VME: 0.1 mg/m ³ ; alveolar fraction	-	-	TWA: 0.1 mg/m ³ ; respirable dust fraction	TWA-AK: 0.1 mg/m ³ ; respirable fraction
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
BARIUM SULPHATE 7727-43-7	TWA: 5 mg/m ³ ; respirable dust STEL: 15 mg/m ³ (calculated); respirable dust	-	TWA: 5 mg/m ³ ; inhalable fraction	-	-
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m ³ ; total inhalable dust TWA: 4 mg/m ³ ; respirable dust STEL: 30 mg/m ³ (calculated); respirable dust STEL: 12 mg/m ³ (calculated);	-	TWA: 10 mg/m ³ ;	TWA: 10 mg/m ³ ;	TWA-IPRD: 5 mg/m ³ ;
C.I. PIGMENT BLUE 15 147-14-8	-	-	TWA: 1 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ STEL: 15 mg/m ³	-	TWA: 3 mg/m ³	-	-
Fumed silica (generic) 112945-52-5	TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³	-	-	TWA: 1 mg/m ³	-
Trimethylolpropane 77-99-6	-	-	-	-	Ceiling: 5 ppm
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m ³ ; respirable dust STEL: 0.3 mg/m ³ ;	TWA: 0.1 mg/m ³ ; respirable fraction	TWA: 0.025 mg/m ³ ; respirable fraction	-	TWA-IPRD: 0.1 ppm; respirable fraction
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
BARIUM SULPHATE 7727-43-7	-	-	-	TWA: 0.5 mg/m ³ ; STEL: 1.5	-

				mg/m ³ (except Barium sulfate; value calculated);	
TITANIUM DIOXIDE 13463-67-7	-	-	-	TWA: 5 mg/m ³ ; STEL: 10 mg/m ³ (value calculated);	TWA-NDS: 10 mg/m ³ ; inhalable fraction STEL-NDSCh: 30 mg/m ³ ;
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 4 mg/m ³
Fumed silica (generic) 112945-52-5	-	-	-	TWA: 1.5 mg/m ³ STEL: 3 mg/m ³	-
SILICA (CRYSTALLINE) 14808-60-7	-	-	TWA: 0.075 mg/m ³ ; respirable fraction	TWA: 0.05 mg/m ³ ; respirable dust TWA: 0.3 mg/m ³ ; total dust STEL: 0.9 mg/m ³ (value calculated; dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); total dust STEL: 0.15 mg/m ³ (value calculated; dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); respirable dust	TWA-NDS: 0.1 mg/m ³ ; respirable fraction
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
BARIUM SULPHATE 7727-43-7	TWA (VLE-MP): 5 mg/m ³ ; inhalable fraction	-	TWA: 4 mg/m ³ ; inhalable fraction TWA: 1.5 mg/m ³ ; respirable fraction	-	TWA-(VLA-ED): 10 mg/m ³ ;
TITANIUM DIOXIDE 13463-67-7	TWA (VLE-MP): 10 mg/m ³ ;	TWA: 10 mg/m ³ ; STEL: 15 mg/m ³ ;	TWA: 5 mg/m ³ ;	-	TWA-(VLA-ED): 10 mg/m ³ ;
C.I. PIGMENT BLUE 15 147-14-8	-	-	-	-	TWA: 0.01 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	-	TWA: 2 mg/m ³ TWA: 10 mg/m ³	-	TWA: 3.5 mg/m ³
Fumed silica (generic) 112945-52-5	-	-	-	TWA: 4 mg/m ³	-
SILICA (CRYSTALLINE)	TWA (VLE-MP):	TWA: 0.1 mg/m ³ ;	TWA: 0.1 mg/m ³ ;	TWA: 0.05 mg/m ³ ;	TWA-(VLA-ED):

14808-60-7	0.025 mg/m³; respirable fraction	dust, respirable fraction	STEL: 0.5 mg/m³; respirable fraction	0.05 mg/m³; respirable fraction
Chemical name	Sweden	Switzerland	United Kingdom	
BARIUM SULPHATE 7727-43-7	-	TWA-MAK: 3 mg/m³; respirable dust TWA-MAK: 10 mg/m³; inhalable dust	TWA: 10 mg/m³; inhalable dust TWA: 4 mg/m³; respirable dust STEL: 30 mg/m³; inhalable dust STEL: 12 mg/m³; respirable dust	
TITANIUM DIOXIDE 13463-67-7	TLV-NGV: 5 mg/m³; total dust	TWA-MAK: 3 mg/m³; respirable dust TWA-MAK: 10 mg/m³; inhalable dust	TWA: 10 mg/m³; total inhalable TWA: 4 mg/m³; respirable STEL: 30 mg/m³; total inhalable STEL: 12 mg/m³; respirable	
C.I. PIGMENT BLUE 15 147-14-8	-	-	TWA: 1 mg/m³ STEL: 2 mg/m³	
CARBON BLACK 1333-86-4	NGV: 3 mg/m³	-	TWA: 3.5 mg/m³ STEL: 7 mg/m³	
Fumed silica (generic) 112945-52-5	-	TWA: 4 mg/m³	TWA: 6 mg/m³ TWA: 2.4 mg/m³ STEL: 18 mg/m³ STEL: 7.2 mg/m³	
Trimethylolpropane 77-99-6	NGV: 5 mg/m³	-	-	
SILICA (CRYSTALLINE) 14808-60-7	TLV-NGV: 0.1 mg/m³; respirable fraction	TWA-MAK: 0.15 mg/m³; respirable dust	TWA: 0.1 mg/m³; respirable fraction STEL: 0.3 mg/m³; respirable	

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
BARIUM SULPHATE 7727-43-7	-	-	10 mg/m ³ [4] [6] 10 mg/m ³ [5] [6]
C.I. PIGMENT BLUE 15 147-14-8	-	450 mg/kg bw/day [4] [6]	4 mg/m ³ [4] [6]
CARBON BLACK 1333-86-4	-	-	1 mg/m ³ [4] [6] 0.5 mg/m ³ [5] [6]
C.I. PIGMENT VIOLET 23 (C.I.151319) 215247-95-3	-	42 mg/kg bw/day [4] [6]	49 mg/m ³ [4] [6] 3 mg/m ³ [5] [6]
Trimethylolpropane 77-99-6	-	0.94 mg/kg bw/day [4] [6]	3.3 mg/m ³ [4] [6]

Notes

- [4] Systemic health effects.
[5] Local health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
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Chemical name	Oral	Dermal	Inhalation
BARIUM SULPHATE 7727-43-7	13000 mg/kg bw/day [4] [6]	-	10 mg/m ³ [4] [6]
C.I. PIGMENT BLUE 15 147-14-8	45 mg/kg bw/day [4] [6]	-	-
CARBON BLACK 1333-86-4	-	-	0.06 mg/m ³ [4] [6]
C.I. PIGMENT VIOLET 23 (C.I.151319) 215247-95-3	25 mg/kg bw/day [4] [6]	-	-
Trimethylolpropane 77-99-6	0.34 mg/kg bw/day [4] [6]	-	0.58 mg/m ³ [4] [6]

Notes

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
BARIUM SULPHATE 7727-43-7	115 µg/L	-	-	-	-
TITANIUM DIOXIDE 13463-67-7	0.127 mg/l	0.61 mg/l	1 mg/l	0.61 mg/l	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
BARIUM SULPHATE 7727-43-7	600.4 mg/kg sediment dw	-	62.2 mg/L	207.7 mg/kg soil dw	-
TITANIUM DIOXIDE 13463-67-7	1000 mg/kg sediment dw	100 mg/kg sediment dw	100 mg/L	100 mg/kg soil dw	-
C.I. PIGMENT BLUE 15 147-14-8	10 mg/kg sediment dw	1 mg/kg sediment dw	-	1 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Wear chemically resistant gloves (tested in accordance to EN 374-1 Type C or greater to be assessed by local risk assessment and physical activity) in combination with employee training. Glove material : Neoprene , Nitriles. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Respiratory protection	Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Coloured paste, or, Viscous liquid
Physical state	Liquid
Color	blue
Odor	Aromatic
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Boiling point or initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Lower and upper explosion limit/flammability limit		None known
Lower explosion limit	No data available	
Upper explosion limit	No data available	
Flash point	> 65 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
SADT (°C)	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Solubility	Organic solvents	None known
Water solubility	No data available	Insoluble in water
Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure	No data available	None known
Density and/or relative density		None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 99,999.00 mg/kg

ATEmix (dermal) 99,999.00 mg/kg

ATEmix (inhalation-gas) 99,999.00 ppm

ATEmix (inhalation-vapor) 99,999.00 mg/l
ATEmix (inhalation-dust/mist) 99,999.00 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
BARIUM SULPHATE	= 307000 mg/kg (Rat)	-	-
TITANIUM DIOXIDE	> 2000 mg/kg (Rat)	-	> 5.09 mg/L (Rat) 4 h
C.I. PIGMENT BLUE 15	> 10000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
CARBON BLACK	> 15400 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.6 mg/m ³ (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Carbon black is not suitable to be tested directly in bacterial (Ames test) and other in vitro systems because of its insolubility. However, when organic solvent extracts of carbon black have been tested, results showed no mutagenic effects. Organic solvent extracts of carbon black can contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that they are very tightly bound to carbon black and are not bioavailable (Borm, 2005). In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black (Driscoll, 1997). This observation is considered to be rat-specific and a consequence of "lung overload," which leads to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.

Carcinogenicity In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010). Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
C.I. PIGMENT BLUE 15	6.6

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
BARIUM SULPHATE	Not PBT/vPvB
TITANIUM DIOXIDE	Not PBT/vPvB
C.I. PIGMENT BLUE 15	Not PBT/vPvB
CARBON BLACK	Not PBT/vPvB
C.I. PIGMENT VIOLET 23 (C.I.151319)	Not PBT/vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADN

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special precautions for user	

Special Provisions None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
CARBON BLACK - 1333-86-4	RG 16, RG 16bis

Chemical Prohibition Ordinance (ChemVerbotsV) This product is subject to requirements and restrictions regarding handling and delivery

TRGS 905 Not applicable

Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
Storage of Hazardous Material SC Non-hazardous material
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable
Major Accidents Ordinance SR 814.012 Not applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
TITANIUM DIOXIDE - 13463-67-7	75	-
C.I. PIGMENT BLUE 15 - 147-14-8	Use restricted. See entry 75.	-
CARBON BLACK - 1333-86-4	Use restricted. See entry 75.	-
C.I. PIGMENT VIOLET 23 (C.I.151319) - 215247-95-3	Use restricted. See entry 75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
CARBON BLACK - 1333-86-4	Plant protection agent

Explosives Precursors Marketing and Use (2019/1148)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status
TCSI	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing Chemicals Inventory
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals
TCSI	- Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian Industrial Chemicals Introduction Scheme (AICIS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision date 13-05-2025

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

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End of Safety Data Sheet